



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
 www.uspto.gov



Bib Data Sheet

CONFIRMATION NO. 7886

<b>SERIAL NUMBER</b> 10/619,796	<b>FILING OR 371(c) DATE</b> 07/15/2003 <b>RULE</b>	<b>CLASS</b> 703	<b>GROUP ART UNIT</b> 2128	<b>ATTORNEY DOCKET NO.</b> CANNING.001CP2
------------------------------------	---	---------------------	-------------------------------	--

**APPLICANTS**  
Francis X. Canning, Morgantown, WV;

**\*\* CONTINUING DATA \*\*\*\*\***  
 This application is a CIP of 10/354,241 01/29/2003 which is a CIP of 09/676,727 09/29/2000  
 This application 10/619,796  
 claims benefit of 60/396,133 07/15/2002 *J.D.*

**\*\* FOREIGN APPLICATIONS \*\*\*\*\***  
*None.*

**IF REQUIRED, FOREIGN FILING LICENSE GRANTED \*\*** 10/10/2003 **\*\* SMALL ENTITY \*\***

Foreign Priority claimed <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<b>STATE OR COUNTRY</b> WV	<b>SHEETS DRAWING</b> 15	<b>TOTAL CLAIMS</b> 14	<b>INDEPENDENT CLAIMS</b> 3
35 USC 119 (a-d) conditions met <input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> Met after Allowance				
Verified and Acknowledged <i>[Signature]</i> Examiner's Signature Initials				

**ADDRESS**  
20995

**TITLE**  
Sparse and efficient block factorization for interaction data

<b>FILING FEE RECEIVED</b> 375	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:	<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees ( Filing ) <input type="checkbox"/> 1.17 Fees ( Processing Ext. of time ) <input type="checkbox"/> 1.18 Fees ( Issue ) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit
-----------------------------------	---	---